

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 April 2004 (01.04.2004)

PCT

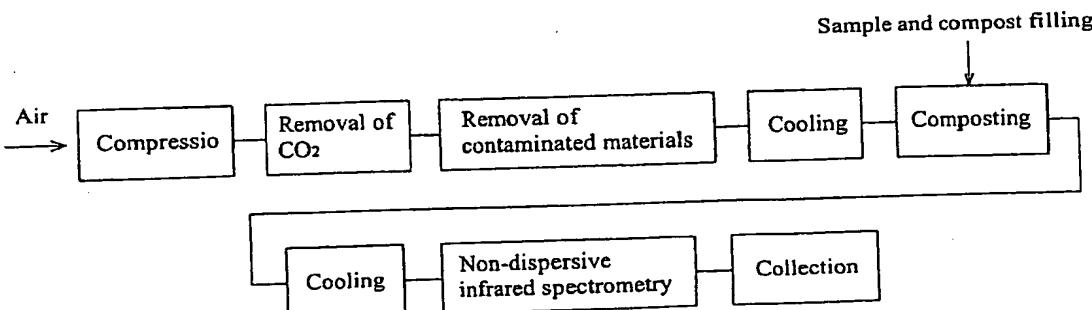
(10) International Publication Number
WO 2004/027416 A1

- (51) International Patent Classification⁷: G01N 33/44 (74) Agents: LEE, Sei-Jin et al.; 17th Floor, City Air Tower, 159-9 Samsung-dong, Gangnam-gu, 135-973 Seoul (KR).
- (21) International Application Number: PCT/KR2002/002158 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 19 November 2002 (19.11.2002) (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (25) Filing Language: English (26) Publication Language: English
- (30) Priority Data: 2002-0057631 23 September 2002 (23.09.2002) KR
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Published:
— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: APPARATUS FOR MEASURING BIODEGRADABILITY OF SAMPLE USING NON-DISPERSIVE INFRARED SPECTROMETRY AND METHOD OF MEASURING THE SAME



(57) Abstract: Disclosed is an apparatus for measuring biodegradability of a polymer sample by non-dispersive infrared spectrometry, including a compression pump (2), a first air controlling unit (4), carbon dioxide removing devices (6), a filter (8), a first cooling device (10), at least two composting vessels (12), at least two second cooling devices (10'), at least two second air controlling units (14), at least two non-dispersive infrared gas analyzers 16 and collection units (18), connected in order, and a computer (34) connected to the first air controlling unit, the second air controlling units and the gas analyzers. Using the current apparatus, the amount of carbon dioxide is rapidly, quantitatively and reproducibly measured, and the apparatus is thus used for research and development procedures of biodegradable polymers.

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